

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PEB439	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2005/002371	International filing date (<i>day/month/year</i>) 09.02.2005	Priority date (<i>day/month/year</i>) 10.02.2004
International Patent Classification (IPC) or national classification and IPC F23C99/00 (2006.01) , F23D11/12 (2006.01) , F23D14/02 (2006.01) , F23D21/00 (2006.01)		
Applicant EBARA CORPORATION		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows: <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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International application No.

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* _____ received by this Authority on _____
- nos.* _____ received by this Authority on _____
- ☐ the drawings:
- sheets _____ as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement		
	Novelty (N)	Claims <u>1-11</u>	YES
		Claims _____	NO
	Inventive step (IS)	Claims <u>1-11</u>	YES
		Claims _____	NO
	Industrial applicability (IA)	Claims <u>1-11</u>	YES
		Claims _____	NO
2.	Citations and explanations (Rule 70.7)		
	Document 1: JP 57-23770 Y2 (Osaka Gas Co., Ltd.), 24 May 1982		
	Document 2: EP 169431 A1 (Hitachi, Ltd.), 29 January 1986 & US 4898001 A1 & CA 1258379 A & JP 61-22106 A & JP 61-22127 A		
	Document 3: US 6481209 B1 (General Electric Co.), 19 November 2002 & EP 1167881 A1 & JP 2002-22171 A		
	<p>The combustion apparatus with a configuration whereby the stream of combustion air that is supplied to the interior of the container initially encounters the fuel wash in an area that is separated from the fuel supply unit, whereafter said stream of combustion air subsequently encounters the fuel wake once again in an area in the vicinity of the aforementioned fuel supply unit;</p> <p>and</p> <p>the combustion apparatus comprising an annular container with an open end and a closed end, wherein the combustion air is supplied in a manner such that said combustion air has both a spiralling velocity component along the circumferential direction of the container and a velocity</p>		

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

component along the axial direction from the open end towards the closed end of the container, while the fuel is injected towards the aforementioned flow path in a manner such that said fuel has both a velocity component along the radial direction towards the outside of the container and a velocity component along the axial direction from the closed end towards the open end of the container

are not disclosed in any of the documents that are cited in the international search report. Furthermore, the inventions in question would not have been obvious to a person skilled in the art.